PATENT COOPERATION TREATY



PCT



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's o	r agent's file reference	FOR FURTHER	see Notific	cation of Transmittal of International Search Report	
XEO100/4-006		ACTION	(Form PC' below.	T/ISA/220) as well as, where applicable, item 5	
International application No. PCT/US03/34207		International filing date (day/month/year) 28 October 2003 (28.10.2003)		(Earliest) Priority Date (day/month/year) 28 October 2002 (28.10.2002)	
Applicant XEOTRON CORPORATION					
applicant acc		py is being transmitted to the Int		Authority and is transmitted to the Bureau.	
	It is also accompanied	by a copy of each prior art doc	ument cite	d in this report.	
a. W		the international search was carrie, unless otherwise indicated under		e basis of the international application in the	
	Authority (Rule 23.1(b)). Vith regard to any nucleotide			e international application furnished to this ne international application, the international	
	contained in the internation	al application in written form.			
	filed together with the inter	national application in computer re	adable for	m.	
	furnished subsequently to the	is Authority in written form.			
	furnished subsequently to the	is Authority in computer readable	form.		
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
	the statement that the inforr been furnished.	nation recorded in computer readal	ble form is	identical to the written sequence listing has	
2.	Certain claims were found	unsearchable (See Box I).			
	Unity of invention is lacking	ng (See Box II).			
4. With rep	gard to the title,	sitted by the applicant			
H	the text is approved as subn				
	the text has been established	l by this Authority to read as follo	ws:		
5. With rea	gard to the abstract,				
\boxtimes	the text is approved as subm	nitted by the applicant.			
				y as it appears in Box III. The applicant ch report, submit comments to this	
6. The figu	The figure of the drawings to be published with the abstract is Figure No.				
	as suggested by the applicar	ıt		None of the figures	
	because the applicant failed	to suggest a figure.			
	because this figure better ch	aracterizes the invention.			

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/34207

Box I Observations where the ain claims were found unsearchable (Continuation of Item 1 of first sheet)			
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.		Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2.		Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:	
3.	6.4(a).	Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule	
Box	k II Ot	exervations where unity of invention is lacking (Continuation of Item 2 of first sheet)	
		cional Searching Authority found multiple inventions in this international application, as follows: continuation Sheet As all required additional search fees were timely paid by the applicant, this international search report covers all	
_	\square	searchable claims.	
2.		As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Rem	ark on F	Protest The additional search fees were accompanied by the applicant's protest.	
		No protest accompanied the payment of additional search fees.	

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)

INTERNATIONAL SEARCH REPORT

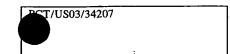
International application No.



	<u></u>		\$03/34207		
A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : C12Q 1/68; C07H 1/00; GO1N 33/53					
US CL : 435/ 6, 7.1, 91.2; 422/129, 134; 536/23.1, 23.2, 24.33, 25.3					
According to International Patent Classification (IPC) or to both national classification and IPC					
	DS SEARCHED				
Minimum do	cumentation searched (classification system followed	by classification symbo	ols)		
U.S. : 43	35/ 6, 7.1, 91.2; 422/129, 134; 536/23.1, 23.2, 24.3	3, 25.3			
Documentation	on searched other than minimum documentation to the	e extent that such docur	nents are included	l in the fields searched	
	ta base consulted during the international search (nar	ne of data base and, wh	iere practicable, s	earch terms used)	
Please See Co	ontinuation Sheet				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap			Relevant to claim No.	
X	US 6,083,697 A (BEECHER et al.) 4 July 2000 (04	.07.2000), see entire p	atent.	1-8 and 11-14	
				15 27	
Y				15-27	
	TYP C 40C 404 P1 (G40 + 1) 20 T-1- 2002 (20 07	2002) soo antina matan	.	1-14	
X	US 6,426,184 B1 (GAO et al.) 30 July 2002 (30.07	.2002), see endre pater	IL.	1-14	
 Y				15-37	
1					
Y	WO 99/07888 A1 (CHURCH et al.) 18 Februrary 1	999 (18.02.1999), see	entire	15-27	
	document.				
Y,P	WO 03/057924 A1 (GASCOYNE et al.) 17 July 20	03 (17.07.2003), see er	ntire document.	15-27	
, i				22 22	
Y	DEBEAR et al., "A Universal Glass Support For O	ligonucleotide Synthesi	is", Nucleosides	23, 30	
	and Nucleotides. 1987, Vol. 6, No. 5, pages 821-8:	ou, see enure arucie, e	specially pages	,	
	822 (1st full paragraph) to page 824.				
Y	WO 01/75164 A2 (TUSCHL et al.) 11 October 200	1 (11.10.2001), see en	tire document.	28-33	
1	WO OII / STOT AZ (1 OBOIIZ et al.) 11 October 200	_ (11.10.2001), 500 011		_	
				,	
Further	documents are listed in the continuation of Box C.	See patent fa	amily annex.		
	pecial categories of cited documents:	"T" later document	nublished after the inte	mational filing date or priority	
1		date and not in	conflict with the applic	cation but cited to understand the	
	defining the general state of the art which is not considered to be	• •	cory underlying the inve		
1		"X" document of pa	articular relevance; the	claimed invention cannot be red to involve an inventive step	
	plication or patent published on or after the international filing date		ment is taken alone		
"L" document	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of pa	articular relevance: the	claimed invention cannot be	
establish specified)		considered to i	nvolve an inventive step	when the document is	
"O" document	referring to an oral disclosure, use, exhibition or other means		one or more other such to a person skilled in th	n documents, such combination e art	
1		_	_		
*P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed			· ····································		
				rch report	
Date of the actual completion of the international search					
	r 2004 (22.11.2004)		DEC 2004		
	ailing address of the ISA/US	Authorized officer	U n	1.1.1-	
	il Stop PCT, Attn: ISA/US	Bennett Celsa	-t. Ko	berts for	
	nmissioner for Patents D. Box 1450			/	
Alexandria, Virginia 22313-1450 Telephone No. (5/1) 272-1000					
Facsimile No	o. (703) 305-3230				

Form PCT/ISA/210 (second sheet) (July 1998)





C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Y	US 6,110,709 A (AUSABEL et al.) 29 August 2000 (29.08.2000), see entire patent.	34-37	
		·	
		·	

INTERNATIONAL.	CEADCH	DEDADT

PCT/US03/34207

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-14, drawn to a method for parallel syntheses of an array of multimers.

Group II, claim(s) 15-27, drawn to a method of generating a DNA sequence.

Group III, claim(s) 28-33, drawn to a method of generating a library of short RNA molecules.

Group IV, claim(s) 34-36, drawn to a method of large-scale SNP detection.

Group V, claim(s) 37, drawn to a method of generating an oligonucleotide library.

Continuation of B. FIELDS SEARCHED Item 3:

West: PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD STN: CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS